

Scope of Work for Professional Services for
As Needed Environmental Monitoring for the Storm Water Department

The City Storm Water Department will coordinate with the Consultant to determine the necessary monitoring, assessment, modeling, and reporting activities to support compliance with applicable MS4 permit (the Municipal Permit), Total Maximum Daily Load (TMDL), Areas of Special Biological Significance (ASBS), and Clean-up & Abatement Order (CAO) program requirements. It is understood that the Consultant will provide to the City all deliverables in a manner and per a schedule negotiated and agreeable to both the City's needs and the Consultant's capability. The Consultant also agrees to communicate effectively with the City as needed in a manner suitable for the task at hand, whether through telephone, e-mail, meetings, or correspondence.

Consultant shall provide as needed professional services for environmental monitoring. Services include the following [with the regulatory requirement that will be addressed in brackets]:

Scope of Work

1. Preparing Project Assessment and Evaluation Plans, Quality Assurance Project Plans, Sampling and Analysis Plans, and other environmental monitoring planning documents; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
2. Selecting monitoring stations for water, sediment, air, and benthic community sampling, pursuant to US Environmental Protection Agency (EPA) and Surface Water Ambient Monitoring Protocols (SWAMP) approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
3. Performing survey measurements at sampling sites, pursuant to EPA and SWAMP approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
4. Collecting water, sediment, air, and benthic community samples by hand and/or automatic sampling devices, pursuant to EPA and SWAMP approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
5. Performing laboratory analysis of water, sediment, air, and benthic community samples for specific contaminants, physical characteristics and toxicity, pursuant to EPA and SWAMP approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]

6. Sampling and surveying at selected benthic community sites, pursuant to EPA and SWAMP approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f)]
7. Performing laboratory analysis of benthic biota samples for abundance, diversity, specific pollutants and/or contaminants, physical characteristics, chemical characteristics, and toxicity, pursuant to EPA, California, and SWAMP approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
8. Reporting of laboratory results, analysis of data, estimation of pollutant concentrations, pollutant loads at sample site locations, Quality Assurance\Quality Control data, and any other pertinent data, pursuant to EPA and SWAMP approved protocols; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
9. Analyzing data for the determination of sources of pollutants including, but not limited to, land use, street, storm drain, sanitary sewer locations, trends, and other statistical analyses; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
10. Assisting with the development of future monitoring projects, and analytical parameters, sample data handling procedures, testing methodologies, and measurement limits for overall water, sediment, air, and benthic community analysis strategies; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
11. Providing technical input and guidance regarding the development of compliance strategies priorities; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
12. Assisting with bioassessment site selection, collection and sample analysis for abundance and diversity pursuant to approved California Fish and Game protocols, or any other pertinent regulations; [MS4 Permit: E.2.c, E.2.f.a, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f)]
13. Providing assistance with compliance reporting and progress updates; [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
14. Providing assistance with presentations; [MS4 Permit: E.2.c,E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]

15. Providing special studies recommendations, such as: conditions assessment; strategic planning; pollutant source identification; technical memoranda; etc. [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
16. Providing technical document review and assessment for the City to submit written comments; and, [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]
17. Providing computer modeling. [MS4 Permit: E.2.c, E.2.f.a, H.1 and H.2, Attachment E,II.D.1, Attachment E,II.D.3; California Public Resources Code, Section 36710(f); Order R9-2004-0277]

Regulatory Documents

MS4 Permit E.2.c: Watershed Water Quality Assessment

MS4 Permit E.2.f.a: Watershed Activities

MS4 Permit H.1: Chollas Creek TMDL requirements

MS4 Permit H.2: Shelter Island TMDL requirements

MS4 Permit Attachment E, II.D.1: Special Studies Requirements

MS4 Permit Attachment E, II.D.3: Special Studies for the implementation of TMDLs

California Public Resources Code, Section 36710(f): requirement to eliminate discharges to Area of Special Biological Significance (ASBS)

Order R9-2004-0277: Chollas Creek TMDL investigative and reporting order